

CLAIMS

I (WE) CLAIM:

1. A wireless communication system operative for transmission of packet
2 data and low delay data on a plurality of transmission channels, the system
comprising:
- 4 a first set of channels within the plurality of transmission channels, the
first set of channels being assigned to packet data transmissions
6 and packet data being transmitted in frames;
8 a second set of channels within the plurality of transmission channels,
the second set of channels being assigned to low delay data
transmissions; and
10 a signaling channel within the plurality of transmission channels, the
signaling channel being assigned to message transmissions,
12 wherein each message identifies a packet data target recipient.
2. The wireless communication system of claim 1, wherein a first message is
2 transmitted on the signaling channel concurrently with an associated first
packet data frame, and wherein the first message identifies a first packet data
4 target recipient associated with the first packet data frame.
3. The wireless communication system of claim 1, wherein the first message
2 identifies a subset of the first set of channels assigned to transmission of the first
packet data.
4. The wireless communication system of claim 1, wherein the first message
2 identifies a coding scheme used for transmission of the first packet data.

9. The method of claim 8, wherein the control information further identifies
2 a coding scheme for the packet data.

E. C. E.

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2 receiving data requests from a plurality of mobile units; and
determining a transmission schedule according to the data requests.

2 assigning a priority level to each of the plurality of mobile units; and
3 determining a traffic schedule among the plurality of mobile units based
4 on priority level.

2 experiencing less interference than other of the plurality of mobile units.

2 the first set of channels, the wireless apparatus comprising:

6 a data rate determination unit operative to calculate a data rate in
 7 accordance with the target recipient information and the coding
 8 information.

2 wireless communications system supporting high rate packet data
transmissions and low delay data transmissions.

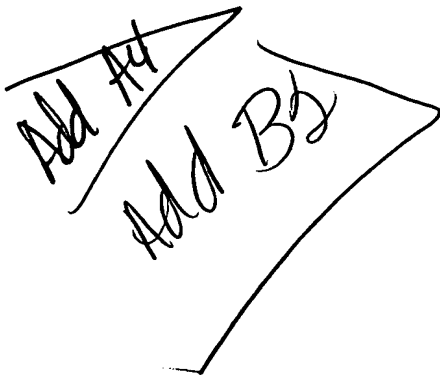
2 a buffer coupled to the processor, the buffer operative to store packet
data received via the at least one of the first set of channels;

4 a decoder coupled to the processor, the decoder operative to decode data
 packets received if the wireless apparatus is a target recipient and
 6 ignore data packets if the wireless apparatus is not the target
 recipient.

16. The apparatus of claim 13, wherein the target recipient information
2 identifies multiple target recipients.

17. The apparatus of claim 13, wherein the coding information is
2 predetermined by a transmitter and is used to encode the packet data, and
wherein the apparatus further comprises:

4 a decoder coupled to the processor, the decoder responsive to the coding
information to decode received packet data.



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